	Application No.	Applicant(s)
Notice of Allewshiller	10/713,073	SILVERBROOK, KIA
Notice of Allowability	Examiner	Art Unit
	Roberts Culbert	1763
The MAILING DATE of this communication appear All claims being allowable, PROSECUTION ON THE MERITS IS (herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGOT (The Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED in this app or other appropriate communication IGHTS. This application is subject to	plication. If not included will be mailed in due course. THIS
1. X This communication is responsive to the amendment and terminal disclaimer filed 1/26/06.		
2. The allowed claim(s) is/are <u>1-6</u> .		
3. Acknowledgment is made of a claim for foreign priority una a) All b) Some* c) None of the:		
1. Certified copies of the priority documents have been received.		
2. Certified copies of the priority documents have been received in Application No. <u>09/425,418</u> .		
3. Copies of the certified copies of the priority documents have been received in this national stage application from the		
International Bureau (PCT Rule 17.2(a)).		
* Certified copies not received:		
Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application. THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		
4. A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.		
5. CORRECTED DRAWINGS (as "replacement sheets") must be submitted.		
(a) Including changes required by the Notice of Draftsperso	on's Patent Drawing Review (PTO-	948) attached
1) Thereto or 2) to Paper No./Mail Date		
(b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date		
Identifying indicia such as the application number (see 37 CFR 1.1 each sheet. Replacement sheet(s) should be labeled as such in the	84(c)) should be written on the drawing he header according to 37 CFR 1.121(r	ngs in the front (not the back) of d).
6. DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.		
Attachment(s)		
1. ☐ Notice of References Cited (PTO-892)	5. Notice of Informal Page 1	atent Application (PTO-152)
2. Notice of Draftperson's Patent Drawing Review (PTO-948)	6. Interview Summary (Paper No./Mail Date	te
 Information Disclosure Statements (PTO-1449 or PTO/SB/08 Paper No./Mail Date 1/26/06 	8), 7. 🗌 Examiner's Amendm	nent/Comment
Examiner's Comment Regarding Requirement for Deposit of Biological Material	8. 🛭 Examiner's Stateme	ent of Reasons for Allowance
	9. Other	

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Terminal Disclaimer

The terminal disclaimer filed on 1/26/06 disclaiming the terminal portion of any patent granted on this application which would extend beyond the expiration date of 11/165,062 has been reviewed and is accepted. The terminal disclaimer has been recorded.

Allowable Subject Matter

Claims 1-6 are allowed.

The following is an examiner's statement of reasons for allowance: the prior art of record fails to teach or render obvious a method of method of fabricating an inkjet printhead chip having a substrate that incorporates drive circuitry, a plurality of nozzle arrangements that are positioned on the substrate, each nozzle arrangement having a nozzle chamber wall and a roof wall positioned on the substrate to define a nozzle chamber, the roof wall defining an ink ejection port in fluid communication with the nozzle chamber, an ink ejection member that is positioned in the nozzle chamber and is displaceable towards and away from the ink ejection port to eject ink from the ink ejection port and an elongate actuator that is fast, at one end, to the substrate to receive an electrical signal from the drive circuitry and fast, at an opposite end, with the ink ejection member, the actuator incorporating a heating circuit that is connected to the drive circuitry layer, the heating circuit being positioned and configured so that, on receipt of, and termination of, a suitable electrical drive signal from the drive circuitry layer, the heating circuit serves to generate differential thermal expansion and contraction, respectively, such that the actuator is displaced to drive the ink ejection member towards and away from the ink ejection port, the method comprising the steps of: fabricating drive circuitry layers on the substrate with a CMOS fabrication process; depositing a first sacrificial metal layer on the substrate; depositing a heater layer for the heating circuits on the first sacrificial layer and etching the heater layer to form the heating circuits; depositing a resiliently flexible layer of dielectric material on the substrate to cover the heater layer and etching the dielectric layer to form the actuators and the ink ejection members, a gap being provided between the heating circuits and the actuators and the ink ejection members; depositing a second sacrificial layer on

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the substrate to cover the actuators and the ink ejection members and etching the sacrificial layer to define deposition zones for the nozzle chamber walls and the roof walls; depositing a layer of a structural

material on the second sacrificial layer to form the nozzle chamber walls and the roof walls; and etching

away the sacrificial layers.

Any comments considered necessary by applicant must be submitted no later than the payment

of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such

submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should

be directed to Roberts Culbert whose telephone number is (571) 272-1433. The examiner can normally

be reached on Monday-Friday (8:30-5:00).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor,

Parviz Hassanzadeh can be reached on (571) 272-1435. The fax phone number for the organization

where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application

Information Retrieval (PAIR) system. Status information for published applications may be obtained from

either Private PAIR or Public PAIR. Status information for unpublished applications is available through

Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should

you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC)

at 866-217-9197 (toll-free).

R. Culbert Examiner

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Parviz Hassanzadeh Supervisory Patent Examiner

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